

main nodes :

23 26

ing nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

main bonds :

8-17 9-13

ing bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
16-17 16-21 17-18 18-19 19-20 20-21

xact/norm bonds :

5-7 6-9 7-8 8-9 9-13

xact bonds :

8-17

ormalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 16-17 16-21 17-18
18-19 19-20 20-21

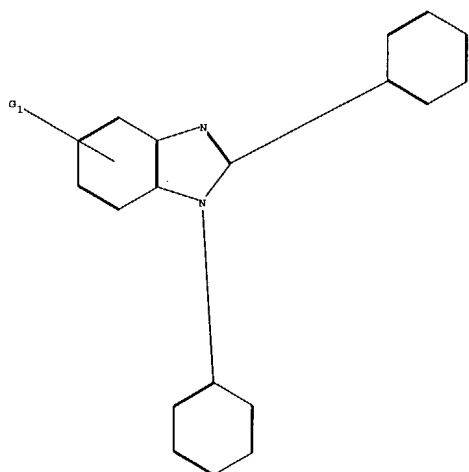
isolated ring systems :

containing 10 : 16 :

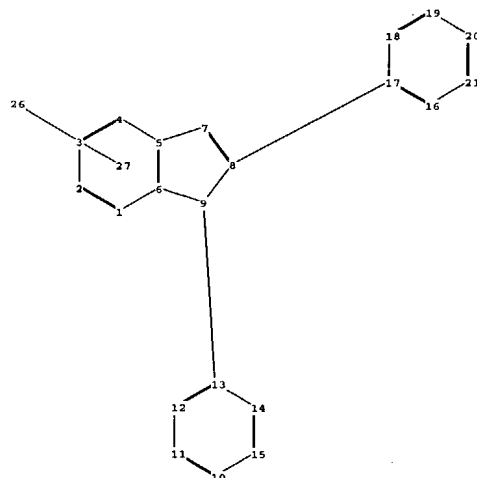
1:o,[*1]

atch level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
23:CLASS 26:CLASS 27:CLASS



N⁺ 1



N⁺ 1

main nodes :

23 26

ing nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

main bonds :

8-17 9-13

ing bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14 14-15
16-17 16-21 17-18 18-19 19-20 20-21

xact/norm bonds :

5-7 6-9 7-8 8-9 9-13

xact bonds :

8-17

ormalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 16-17 16-21 17-18
18-19 19-20 20-21

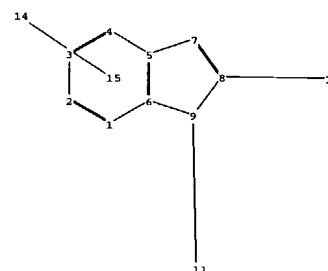
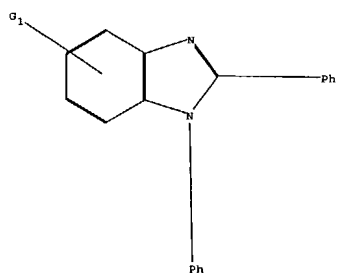
isolated ring systems :

containing 10 : 16 :

l:o,[*1]

atch level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
23:CLASS 26:CLASS 27:CLASS



chain nodes :
 10 11 14
 ring nodes :
 1 2 3 4 5 6 7 8 9
 chain bonds :
 8-10 9-11
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
 exact/norm bonds :
 5-7 6-9 7-8 8-9
 exact bonds :
 8-10 9-11
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 :

1:O,N

match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS
 14:CLASS 15:CLASS

* * * * * Welcome to STN International * * * * *

<u>NEWS 1</u>		Web Page URLs for STN Seminar Schedule - N. America
<u>NEWS 2</u>		"Ask CAS" for self-help around the clock
<u>NEWS 3</u>	SEP 09	CA/CAPLUS records now contain indexing from 1907 to the present
<u>NEWS 4</u>	DEC 08	INPADOC: Legal Status data reloaded
<u>NEWS 5</u>	SEP 29	DISSABS now available on STN
<u>NEWS 6</u>	OCT 10	PCTFULL: Two new display fields added
<u>NEWS 7</u>	OCT 21	BIOSIS file reloaded and enhanced
<u>NEWS 8</u>	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
<u>NEWS 9</u>	NOV 24	MSDS-CCOHS file reloaded
<u>NEWS 10</u>	DEC 08	CABA reloaded with left truncation
<u>NEWS 11</u>	DEC 08	IMS file names changed
<u>NEWS 12</u>	DEC 09	Experimental property data collected by CAS now available in REGISTRY
<u>NEWS 13</u>	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPLUS
<u>NEWS 14</u>	DEC 17	DGENE: Two new display fields added
<u>NEWS 15</u>	DEC 18	BIOTECHNO no longer updated
<u>NEWS 16</u>	DEC 19	CROPU no longer updated; subscriber discount no longer available
<u>NEWS 17</u>	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
<u>NEWS 18</u>	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
<u>NEWS 19</u>	DEC 22	ABI-INFORM now available on STN
<u>NEWS 20</u>	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
<u>NEWS 21</u>	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPLUS
<u>NEWS 22</u>	FEB 05	German (DE) application and patent publication number format changes
<u>NEWS 23</u>	MAR 03	MEDLINE and LMEDLINE reloaded
<u>NEWS 24</u>	MAR 03	MEDLINE file segment of TOXCENTER reloaded
<u>NEWS 25</u>	MAR 03	FRANCEPAT now available on STN
<u>NEWS EXPRESS</u>		DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
<u>NEWS HOURS</u>		STN Operating Hours Plus Help Desk Availability
<u>NEWS INTER</u>		General Internet Information
<u>NEWS LOGIN</u>		Welcome Banner and News Items
<u>NEWS PHONE</u>		Direct Dial and Telecommunication Network Access to STN
<u>NEWS WWW</u>		CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 23:31:56 ON 04 MAR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 23:32:01 ON 04 MAR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 3 MAR 2004 HIGHEST RN 658036-92-1
 DICTIONARY FILE UPDATES: 3 MAR 2004 HIGHEST RN 658036-92-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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L1 STRUCTURE UPLOADED

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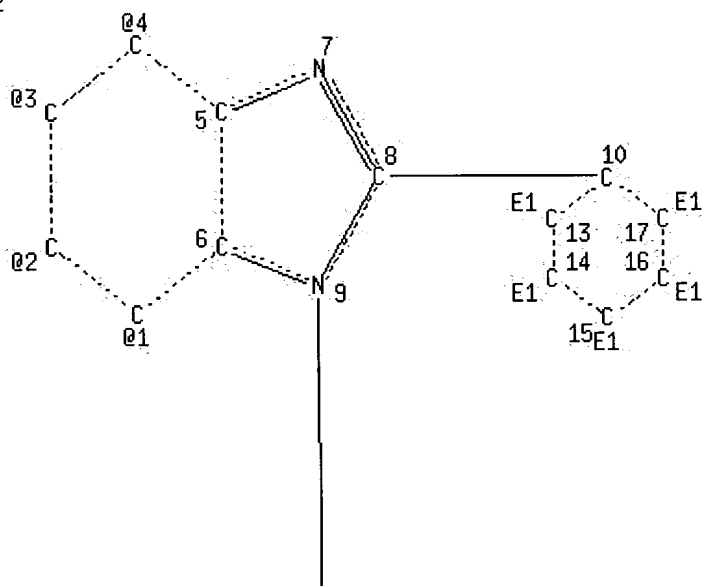
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L1 STR

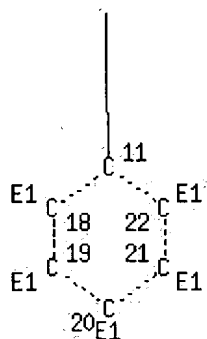
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Page 1-A

G1 012



Page 1-B



Page 2-B

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HCOUNT	IS	E1	AT	22
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NSPEC	IS	R	AT	2
NSPEC	IS	R	AT	3
NSPEC	IS	R	AT	4
NSPEC	IS	R	AT	5
NSPEC	IS	R	AT	6
NSPEC	IS	R	AT	7
NSPEC	IS	R	AT	8
NSPEC	IS	R	AT	9
NSPEC	IS	R	AT	10
NSPEC	IS	R	AT	11
NSPEC	IS	C	AT	12
NSPEC	IS	R	AT	13
NSPEC	IS	R	AT	14
NSPEC	IS	R	AT	15
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MLEVEL IS CLASS AT 10 11 13 14 15 16 17 18 19 20 21 22 23 24

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

=> s 11

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 SAMPLE SCREEN SEARCH COMPLETED - 258 TO ITERATE

100.0% PROCESSED 258 ITERATIONS 6 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 4197 TO 6123
 PROJECTED ANSWERS: 6 TO 266

L2 6 SEA SSS SAM L1

=> s l1 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 23:32:28 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4708 TO ITERATE

100.0% PROCESSED 4708 ITERATIONS 133 ANSWERS
 SEARCH TIME: 00.00.01

L3 133 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.42	155.63

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FILE COVERS 1907 - 4 Mar 2004 VOL 140 ISS 10
 FILE LAST UPDATED: 3 Mar 2004 (20040303/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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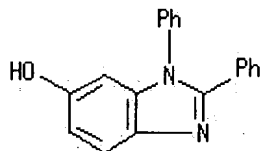
L4 5 L3

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L4 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER: 2002:855869 HCAPLUS
 DOCUMENT NUMBER: 139:179987
 TITLE: Product class 4: benzimidazoles
 AUTHOR(S): Grimmett, M. R.
 CORPORATE SOURCE: Organic Chemistry, Dept. of Chemistry, University of Otago, Dunedin, N. Z.
 SOURCE: Science of Synthesis (2002), 12, 529-612
 CODEN: SSCYJ9
 PUBLISHER: Georg Thieme Verlag
 DOCUMENT TYPE: Journal; General Review
 LANGUAGE: English
 AB A review. Methods for prepg. benzimidazoles are reviewed covering annulations to arenes, ring transformations, and aromatization. Modification of benzimidazole substituents are also included.
 IT **117125-04-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (review of prepn. of benzimidazoles via cyclization, ring transformations, aromatization and modification of substituents)
 RN **117125-04-9** HCAPLUS
 CN 1H-Benzimidazol-6-ol, 1,2-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 497 THERE ARE 497 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

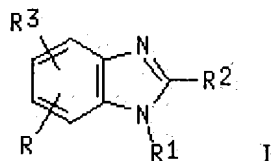
Full Text
 Citing References

ACCESSION NUMBER: 2001:526062 HCAPLUS
 DOCUMENT NUMBER: 135:107328
 TITLE: Preparation of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation
 INVENTOR(S): Kuhnke, Joachim; Halfbrodt, Wolfgang; Moenning, Ursula
 PATENT ASSIGNEE(S): Schering Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 141 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051473	A1	20010719	WO 2001-EP334	20010112
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

BR 2001007628	A	20021008	BR 2001-7628	20010112
EP 1246808	A1	20021009	EP 2001-915133	20010112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003523961	T2	20030812	JP 2001-551855	20010112
EE 200200390	A	20031015	EE 2002-390	20010112
US 2002006948	A1	20020117	US 2001-759360	20010116
BG 106821	A	20030131	BG 2002-106821	20020613
NO 2002003362	A	20020913	NO 2002-3362	20020712
PRIORITY APPLN. INFO.:			DE 2000-10002898	A 20000114
			US 2000-178324P	P 20000127
			WO 2001-EP334	W 20010112

OTHER SOURCE(S): MARPAT 135:107328
GI



AB Title compds. [I; R = ZZ1R4; R1,R2 = (un)substituted (hetero)aryl; R3 = H, halo, substituted alkyl, alkoxy, etc.; R4 = CO2H, alkoxycarbonyl, CONH2, SO3H, etc.; Z = O, (alkyl)imino, acylimino; Z1 = (heteroatom-interrupted) alkyl(en)ylene, etc.] were prepd. Thus, I (R1 = R2 = Ph, R3 = H) (II; R = 6-OH) was etherified by BrCH2CO2CHMe3 to give II (R = 6-OCH2CO2CHMe3). Data for biol. activity of I were given.

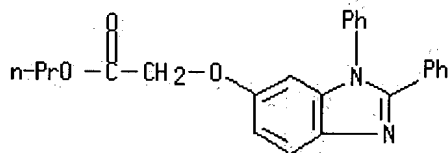
IT 350231-38-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 1,2-diarylbenzimidazolealkanoates and analogs for treatment of disorders mediated by microglia activation)

RN 350231-38-8 HCAPLUS

CN Acetic acid, [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]-, propyl ester (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Citing
Text References

ACCESSION NUMBER: 1995:737335 HCAPLUS

DOCUMENT NUMBER: 123:143893

TITLE: Preparation of benzimidazoles as prostacyclin PGI2 mimetics.

INVENTOR(S): Kuhnke, Joachim; Eckle, Emil; Thierauch, Karl-Heinz; Verhallen, Peter

PATENT ASSIGNEE(S): Schering A.-G., Germany

SOURCE: Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4330959	A1	19950316	DE 1993-4330959	19930909
WO 9507263	A1	19950316	WO 1994-EP2948	19940906

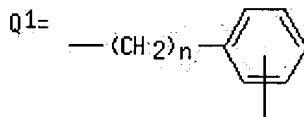
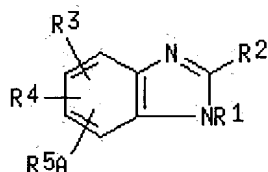
W: JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1993-4330959 19930909

OTHER SOURCE(S): MARPAT 123:143893

GI



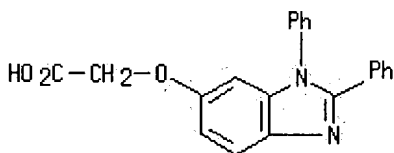
AB Title compds. [I; R1, R2 = (substituted) Ph, heteroaryl; R3, R4 = H, halo, alkyl, perfluoroalkyl, alkoxy, perfluoroalkoxy, carboxyl, alkoxy carbonyl, NO₂, amino, etc.; A = bond, (O- or S-interrupted) alkylene, alkenylene, alkynylene, Q1; n = 1-4; R5 = carboxyl, SO₃H, PO₃H₂, tetrazolyl], were prepd. as PGI₂ mimetics and TXA₂/PGH₂ antagonists useful in treating thrombosis, arteriosclerosis, and hyperlipidemia (no data). Thus, 1,2-diphenyl-1H-benzimidazol-6-ol, MeO₂CCH₂Br, and K₂CO₃ were refluxed 3 h in acetone to give Me [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]acetate, which was stirred 24 h in a mixt. of aq. NaOH, THF, and MeOH to give [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]acetic acid.

IT 166396-70-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of benzimidazoles as prostacyclin PGI₂ mimetics)

RN 166396-70-9 HCAPLUS

CN Acetic acid, [(1,2-diphenyl-1H-benzimidazol-6-yl)oxy]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER: 1988:590316 HCAPLUS

DOCUMENT NUMBER: 109:190316

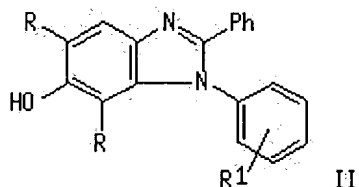
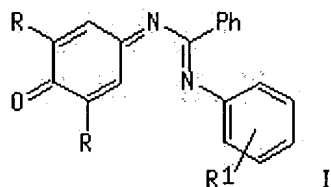
TITLE: New benzimidazole synthesis

AUTHOR(S): Benincori, T.; Sanniccolo, F.

CORPORATE SOURCE: CNR, Univ. Milano, Milan, 20133, Italy

SOURCE: Journal of Heterocyclic Chemistry (1988), 25(3),

DOCUMENT TYPE: 1029-33
 LANGUAGE: CODEN: JHTCAD; ISSN: 0022-152X
 OTHER SOURCE(S): Journal
 GI English
 CASREACT 109:190316



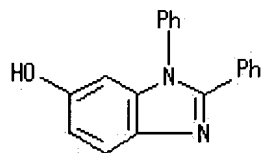
AB Thermal or acid catalyzed cyclization of several N-(N-arylbenzimidoyl)-1,4-benzoquinoneimines I (R = H, Cl, Me; R1 = H, 4-NO2, 4-MeO, 4-Cl, 4-Me, 2,5-Me2, 2,6-Me2) affords 1-aryl-6-hydroxy-2-phenylbenzimidazoles II in fairly good yields. Structural proofs and kinetic support for the reaction mechanism are given.

IT 117125-04-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 117125-04-9 HCAPLUS

CN 1H-Benzimidazol-6-ol, 1,2-diphenyl- (9CI) (CA INDEX NAME)

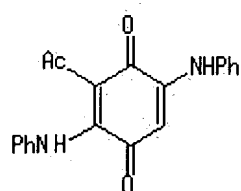


L4 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

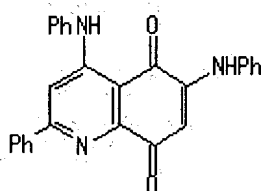
Full
Text

Citing
References

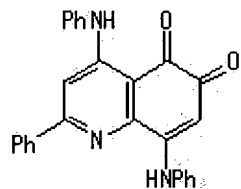
ACCESSION NUMBER: 1978:105094 HCAPLUS
 DOCUMENT NUMBER: 88:105094
 TITLE: Reaction of 3-acetyl-2,5-dianilino-1,4-benzoquinone and N1-phenylbenzamidine; a synthesis of quinolinequinones
 AUTHOR(S): Schaefer, Wolfram; Falkner, Christine
 CORPORATE SOURCE: Max-Planck-Inst. Biochem., Martinsried, Fed. Rep. Ger.
 SOURCE: Justus Liebig's Annalen der Chemie (1977), (9), 1445-56
 CODEN: JLACBF; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 88:105094
 GI



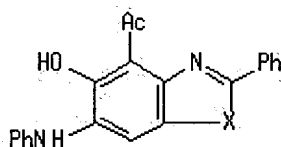
I



11



III



IV

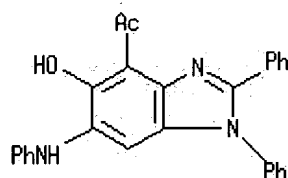
AB Benzoquinone I reacted with $\text{PhC}(:\text{NH})\text{NHPh}$ to give 49% quinolinequinone II, 2.6% quinolinequinone III, 4% benzoxazole IV ($\text{X} = \text{O}$), and benzimidazole IV ($\text{X} = \text{NPh}$).

IT 65908-26-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 65908-26-1 HCAPLUS

CN	Ethanone, 1-[5-hydroxy-1,2-diphenyl-6-(phenylamino)-1H-benzimidazol-4-yl]- (9CI) (CA INDEX NAME)
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=> file caold
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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
26.14	181.77

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.47	-3.47

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for

more information.

=> d his

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L1 STRUCTURE UPLOADED

L2 6 S L1

L3 133 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 23:32:32 ON 04 MAR 2004

L4 5 S L3

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=> s l3

L5 0 L3

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

182.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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0.00

-3.47

STN INTERNATIONAL LOGOFF AT 23:32:51 ON 04 MAR 2004